PATENT ABSTRACTS OF JAPAN

(11)Publication number:

08-034785

(43) Date of publication of application: 06.02.1996

(51)Int.Cl.

C07D451/12 A61K 31/47 A61K 31/47

C07D451/04

(21)Application number : 07-107488

(71)Applicant: TAISHO PHARMACEUT CO LTD

(22) Date of filing:

01.05.1995

(72)Inventor: OUCHI YUTAKA

SUZUKI MASATOSHI **ASANUMA HAJIME**

YOKOMORI SADAKAZU HATAYAMA KATSUO

(30)Priority

Priority number: 06101438

Priority date: 17.05.1994

Priority country: JP

(54) QUATERNARY SALT COMPOUND OF QUINOLINECARBOXYLIC ACID

(57)Abstract:

PURPOSE: To obtain a compound having a serotonin 4 receptor stimulating effect and effective for improvement of alimentary symptoms such as heartburn or anorexia caused by chronic gastritis or diabetes or accompanying a sergery such as gastrectomy and therapy of regurgitant esophagitis, spurious intestinal obstruction, onstipation, etc.

CONSTITUTION: A compound of formula I (X is O or imino; R1 and R2 are each a 1 to 15C alkyl or an aralkyl; Q is a halogen or tosylate), e.g. end-N-[8-(n- heptyl)-8methyl-8-azoniabicyclo[3.2.1]oct-3-yl)1-isopropyl-2-oxo-1,2-dihydro-3- quinolinecarboxamide-bromide. The compound of formula I is synthesized by using a compound of formula II as the starting substance,

Searching PAJ Page 2 of 2

conducting reductive ring closure reaction, N-isopropylation, hydrolysis, esterification or amidation and demethylation in order to obtain a compound of formula III, then reacting a compound of the formula R1Q therewith and subsequently further reacting a compound of the formula R2Q therewith.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]